| 1 | The Case of the Shiny Mirrors |
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| 3 | Dr. Amy Adams is a staff scientist Berkeley Lab. She has spent 15 years at Berkeley Lab |
| 4 | researching optical resolution. Most of her early research was funded by the Department of |
| 5 | Energy, with some additional funding from the National Institutes of Health (NIH) and |
| 6 | NASA. Four years ago she invented a ceramic coating technology designed to improve |
| 7 | resolution of reflective lenses. |
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| 9 | Eager to commercialize the technology, Dr. Adams formed a start up company, MirrorsPlus, |
| 10 | to license the technology from LBNL, and obtained a DOE SBIR grant for some initial |
| 11 | funding. Dr. Adams is the Chief Scientific Officer (CSO) for MirrorsPlus, a job she performs |
| 12 | for about 15 hours a week in addition to her full-time Berkeley Lab research appointment. |
| 13 | She receives no salary for this work, but as a founder of MirrorsPlus, Dr. Adams owns 30% |
| 14 | of the equity in the company. |
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| 16 | The Director of Product Engineering for MirrorsPlus is Bob Barker, who went to work for |
| 17 | the company directly after he finished his graduate studies under Dr. Adams in her lab at |
| 18 | LBNL. As the CSO, Adams oversees Barker's work. Barker is the PI on the SBIR grant, which |
| 19 | has a goal of producing a commercial proof of concept for the ceramic optical coatings. In |
| 20 | order to access the physical resources necessary to improve the coatings, Dr. Adams plans |
| 21 | for MirrorsPlus to collaborate with Berkeley Lab on the SBIR grant, probably with her own |
| 22 | Lab as she has the most expertise in the technology. |
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| 24 | One of Dr. Adams' NIH grants was extended at a lower level of funding than she applied for, |
| 25 | and she is no longer able to provide full-time support for Sam Lucas, a promising young |
| 26 | researcher who works for her in her LBNL lab. She was able to extend Lucas' appointment, |
| 27 | but only at 50% time. She values his expertise, and hopes to be able to obtain more funding |
| 28 | in the future and once again offer him a 100% appointment at Berkeley Lab. In order to |
| 29 | retain Lucas part time and not lose his expertise entirely, she offers him a half-time |
| 30 | consulting job with MirrorsPlus for a one-year period while he continues to work 50% for |
| 31 | Berkeley Lab. |

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| 33 | For the past several years, Dr. Adams has conducted some research at LBNL funded by |
| 34 | NASA. In the most recent renewal of the NASA project, the scope of work includes |
| 35 | developing optical coatings to improve the resolution of several of NASA's large telescopes. |
| 36 | NASA would very much like her to produce a prototype of the coatings. Dr. Adams can |
| 37 | develop specifications for the coatings at LBNL. However, as the prototype would really fit |
| 38 | best with MirrorsPlus' attempts to commercialize similar work, Dr. Adams requests an |
| 39 | LBNL subcontract for \$300k to MirrorsPlus to complete the prototype development under |
| 40 | the direction of Dr. Barker. |
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